



Machining of Polymer Composites

By Jamal Ahmad

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Machining of Polymer Composites By Jamal Ahmad

This excellent volume will serve as an indispensable reference and source book for process design, tool and production engineers in composite manufacturing. It provides the reader with a comprehensive treatment of the theory of machining as it applies to fiber reinforced polymer composites. It covers the latest technical advances in the area of machining and tooling, and discusses the applications of fiber reinforced polymer composites in the aircraft and automotive industries.

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Editorial Review

Review

From the reviews:

"This book covers the theoretical foundation and practical aspects of machining of polymer composites with quality and innovation in seven chapters. ... The present book can be used for final undergraduate engineering course ... or as a subject on manufacturing of composite materials at the postgraduate level. ... this book can serve as a useful reference for academics, manufacturing researchers, mechanical, materials and manufacturing engineers, professional in related industries with composite manufacturing." (J. Paulo Davim, International Journal of Machining and Machinability of Materials, Vol. 6 (3/4), 2009)

From the Back Cover

Machining of Polymer Composites is an indispensable reference/source book for process design, tool and production engineers in composite manufacturing and can be used as a textbook for graduate and upper level undergraduate courses in manufacturing and mechanical engineering.

Drawing upon years of practical experience and using numerous examples, Jamal Ahmad provides the reader with a comprehensive scientific treatment of the theory of machining as it applies to fiber reinforced polymer composites (FRP), including:

- Mechanics of chip formation and the critical influence of composite architecture on chip formation mode, cutting forces and surface quality
- The phenomena of tool wear and an analysis of tool materials and tool wear mechanisms in machining of FRP composites
- Machinability of FRP composites by traditional and nontraditional methods including turning, milling, drilling, abrasive, abrasive waterjet and laser machining
- The issue of health and safety in machining FRP composites

Machining of Polymer Composites is a must have book for practicing mechanical, manufacturing and production engineers, project managers and shop floor technicians

Users Review

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